conspicuously marked with darker brown; seutellum and postnotum light brown, the posterior margin of the latter darker. Thorax with very short setæ. Pleura grey, variegated with brown, especially on the ventral selerites; dorsopleural membrane obsenre yellow. Halteres brown, the knobs obscure brownish yellow. Legs with the coxe brown; trochanters greenish; femora vellowish brown, the tips rather narrowly but conspicuously blackened; tibiæ pale yellowish brown, the tips very narrowly blackened; basal tarsal segment bright brown, the terminal segments blackened. Wings strongly infumed, the caudal margin fading into grey; wing-base and cells C and Sc darker brown; stigma oval, dark brown; a conspicuous brown cloud on the basal deflection of R_{4+5} and r-m; a brown cloud in the centre of cell R; a very small pale area before the stigma; veins dark, the tips of the medial and anal veins subobsolete. Venation: cell 1st M_2 narrowed distally; petiole of cell M_1 a little less than twice the length of m; m-cu distinct; cell 2nd A broad.

Abdominal tergite 1 and the lateral margins of 2 reddish yellow, the median area dark brown; remaining tergites shiny dark brown, the caudal margins of the segments narrowly blackened; hypopygium dark.

Hab. New Zealand (South Island).

Holotype, &, Dunedin, Otago, December 22, 1921 (G. Howes).

LX. — Exotic Muscaridæ (Diptera).—VIII.* By J. R. Malloch, Bureau of Biological Survey, Washington, D.C.

Subfamily $P_{HAONIIN}$.

Genus XENOSIA, Malloch.

I erected this genus for the reception of one species, ungulata, Stein. In my original definition of the genus, I included the presence of fine hairs on the upper margin of the hypopleura in front of the spiracle as one of the characters of the genus. This applies to the genotype, but not to morosa, Stein, which I consider may properly be located in this genus. This character, therefore, must be eliminated.

^{*} For Part VII., see Ann. & Mag. Nat. Hist. (9) x., October 1922, pp. 379-391.

Xenosia ungulata (Stein).

One male, Punkullam, Ceylon, 13. iii. 1891 (J. W.

Yerbury).

This specimen has a dense covering of mites on the ventral surface and on the sides of the thorax anteriorly and posteriorly.

Xenosia morosa (Stein).

A bluish-black species with greyish pruinescence on thorax and abdomen; the antennæ and palpi fuscous, and the legs yellow. The antennæ are long and rather slender, the third segment about four times as long as second, and the arista is much shorter-haired than in *ungulata*. The anterior intra-alar bristle is absent as in that species, the scutellum has some fine hairs on sides below, and the setulæ on first vein are confined to the basal half of the vein.

Three females, Nuwara Eliya, Ceylon, 6. v. 1891, and 12.

and 13. vii. 1892 (J. W. Yerbury).

This species was originally described from Ceylon.

The genus Miographa, Malloch, has the first vein setulose, but on the apical instead of the basal half, and the arista is pubescent, not plumose. I inadvertently cited the genotype as intonsa, Stein, instead of tonsa, Stein. There is no such species as Limnophora intonsa, Stein. This genus is more nearly related to Limnophora than to Helina.

Helina fuscoflava, Malloch.

One female, Victoria, Australia (C. French).

African Conosiina.

This subfamily is very well represented in Africa both as to genera and species. The adults are, so far as I know, predacious, feeding upon small insects of other orders and Diptera, especially small Nematocera. The larvæ of some species feed in much decayed wood, especially tree-stumps, and others feed in rotting fruit. The genus Atherigona, which is cosmopolitan in its distribution, is very commonly found in Africa, but it is very difficult to identify the described species as they have been described on colour-characters almost entirely. I hope to give some time to the study of this genus next, and find some means of working out the forms available to me.

The subfamily, as at present understood, has the following

characters:—Eyes in both sexes widely separated; thorax usually with one pair of strong presutural dorso-central bristles, if with two pairs there are but three pairs of post-suturals, the lower stigmatal bristle is directed downward, and there is but one antero-dorsal bristle on middle of hind tibia; scutellum with at most four strong marginal bristles, the smaller preapical bristles absent; sixth wing-vein short; scutellum without any soft ventral hairs; lower calyptra larger than upper, sometimes inconspicuously so.

Key to Genera in Africa.

	J	
1.	Thorax with two pairs of strong postsutural	
	dorso-central bristles; lower calyptra	
	but little larger than upper	•)
	Thorax with three pairs of postsutural	
	dorso-central bristles; lower calyptra usually much larger than upper	4.
()	Costal vein ending at or slightly beyond	Τ.
~.	apex of third vein; mid-tibia with a	
	long bristle at base	Tennicosta, Stein.
	Costal vein continued to apex of fourth	
_	vein	3.
3.	Scutellum with four strong bristles; fore	4 7 7 4 1
	tibiæ of males feathered	Anaphalantus, Loew.
	Scutellum with but two strong bristles; fore tibiæ of males not feathered	Microcalyptra, Stein.
4.	Scutellum with but two strong bristles;	22 to outgrown, stelli,
	fore tibiæ unarmed at middle	5.
	Scutellum with four strong bristles	6.
õ.	Hind tibia with one long and one short	
	antero-ventral bristle; thorax with one	Outing Darker
	pair of presutural dorso-central bristles Hind tibia with at most one short antero-	Orchisa, Rondani.
	dorsal bristle; thorax with two pairs of	
	presutural dorso-central bristles	Spanochæta, Stein.
6.	Costal vein ending at apex of third vein	Brevicosta, Malloch.
	Costal vein continued to apex of fourth	_
_	vein	7.
(.	Anterior thoracic dorso-centrals very short, but little longer than the adjacent setu-	
	lose hairs; fore femur with one or two	
	bristles near apex on postero-ventral	
	surface	Atherigona, Rondani.
	Anterior thoracic bristles long and strong,	
	well differentiated from any minute	
	setulæ that may be present; fore femur with a complete series of bristles on	
	postero-ventral surface	8.
8.	Hind tibia with one or two strong bristles	
	on postero-dorsal surface near middle	9,
	Hind tibia without bristles on postero-	1
0	dorsal surface near middle	10.
9.	Hind tibia with two bristles on postero-	39#
		99

Jij Mil. V. H. Manoch Vit Baville M	ttoon rate.
dorsal surface: median two bristles on each orbit very close together Hind tibia with one median postero-dorsal bristle; bristling of orbits normal 10. Hind tibia with two very long bristles at middle, the bases of which are very close together, one on the antero-dorsal and	Pygophora, Schiner. Canosia, Meigen, pt.
the other on the anterior or anteroventral surface	Caricea, RobDesv.
antero-ventral surface, the latter nearer apex than than the former	Canosia, Meigen, pt.
lower calyptra hardly produced	Schænomyza, Haliday
Key to Species of Comosia and	l Caricea.
1. Legs black; fore and mid coxæ whitish; antennæ pale yellow	albicoxa, Stein.
rowly yellowish Legs yellow; if largely black, the tibie are always yellow at least at bases, and the femora are usually basally, always so	9.
if the tibiæ are blackened apically 2. Halteres black or dark brown	14. 3. 7.
Halteres yellow	nodosa, Stein. 4.
sharp upper anterior angle at apex; calyptræ whitish	canifrons, Stein. 5.
upper angle at tip; from seen from in front with dense whitish pruinescence Calyptræ brown or fuscous	præacuta, Stein.
6. From seen from in front densely white pruinescent	niveifrons, Stein. fumisquama, Stein.
bare; calyptræ very unequal in size; frons densely whitish-grey pruinescent Arista with distinct but not very long hairs; frons not densely whitish-grey	8.
pruinescent	9.
hlack Abdomen grey pruinescent, immaculate; knees vellow Wings whitish on basal half, more or less	planifrons, Stein. diluta, Stein.
conspicuously blackened on apical half;	

10.	lower calyptra much protruded; abdomen greyish prininose, opaque, with paired dorsal black spots. Wings unicolorous hyaline Paired black spots on dorsum of abdomen fused, large, and rather poorly defined; apical half of wing very conspicuously blackened; fifth sternite in male entirely	10. 11.
11.	opaque grey pruinose Paired black spots on dorsum of abdomen widely separated, sometimes indistinct; apical half of wing inconspicuously in- fuscated; inner half of each process of fifth abdominal sternite of male shining, outer half opaque grey pruinose Lower calyptra barely protruded beyond upper; abdomen with grey pruinescence,	semifumosa, Stein.
	and dorso-central vitta and paired spots black	fallax, Stein.
12.	Abdomen glossy black, with grey pruinescence on each tergite at the anterior lateral angle on dorsum, not with dis-	12.
	tinct paired spots	12 a.
12a.	dorsum Legs black; arista quite distinctly haired. Knees and bases of tibiæ yellow; arista with short pubescence	13. pilifemur, Stein. fascigera, Stein.
13.	Bases of fore tibiæ narrowly pale yellowish; male without series of median spots on dorsum of abdomen; outer cross-vein of wing at not more than its own length	Jacobyera, Stein.
	from apex of fifth vein	semialba, sp. n.
14.	of wing at distinctly more than its own length from apex of fifth	tripunctiventris, sp. n.
	antennal segment	15.
15.	width of third antennal segment Femora yellow, sometimes a small blackish mark at apices of hind pair	16. longiscta, Stein.
16.	Femora black	angustifrons, Stein.
	yellowish	20. ochroprocta, Spieser. 18.

18.	Antennæ falling much short of lower	
	margin of eyes	humilis, Meigen.
	of eyes	19.
19.	llind tibiæ with fine setulæ on almost the	
	entire ventral surface; thorax usually with a brown median vitta	trichocnema, Stein.
	Hind tibiæ without fine setulose ventral	ertenoenema, com.
00	hairs; thorax not vittate	inanis, Stein.
20.	Tibiæ largely black; wings slightly and evenly brownish	fumipennis, Stein.
	Tibiæ yellow; wings hyaline	21.
21.	Abdomen more or less translucent yellow	donadia v Poser
	at base	dorsalis, v. Roser.
22.	Vibrissæ vellow	flavovibrissuta, Stein.
93	Vibrissæ black	23.
20.	dorsal bristle and an antero-dorsal bristle	
	at middle, the female with an antero-	
	ventral bristle also; arista almost bare; thorax with three broad brown vitte,	
	the median one carried over disc of	
	scutellum	24.
	Hind tibia lacking the postero-sutural bristle	25.
24.	Third antennal segment attenuated apically,	
	gradually tapered to apex, the underside	
	without a rounded angle, the upper ter- minating in a sharp point; dorsum of	
	thorax chocolate-brown, that of abdomen	
	similarly coloured except at anterior	
	lateral angles of tergites where there are small grey-pruin scent triangular	
	marks; all femora with a blackish stripe	
	above apically	attenuicornis, sp. n.
	tinctly tapered to apex; thorax not as	
2.1	above	24 a.
246	2.Ocellar bristles about two-thirds as long as frons; bristles on basal half of anterp-	
	ventral and postero-ventral surfaces of	
	mid-femur long and strong; all femora largely infuscated, pale at bases and	
	apices	fuscifemur, sp. n.
	Ccellar bristles about one-third as long as	J - J - F
	from: bristles on basal half of postero- ventral and antero-ventral surfaces of	
	mid-femur very short and weak; femora	
2=	almost entirely clear rufous yellow	vittata, Wiedemann.
20	. Therax with a very broad brown vitta on each side of disc which is carried over	
	anterior lateral angle of scutellum, and	
	a very fine median brown line which is	
	neither contiguous with lateral vitta nor	

	continued over disc of scutellum; anterior bristle on middle of hind tibia	
	apicad of the antero-dorsal one	inæquivitta, sp. n.
	Thorax with the vittle not as above, the anterior lateral angles of scutellum never	
26.	darker than the disc	26.
	infuscated; arista bare; small species,	and de Chin
	3.5 mm. in length	costata, Stein.
27.	Third autennal segment pale yellow; small species, about 1.3 mm, in length	28.
98	species, about 1.3 mm. in length Third autennal segment not yellow Fore and mid tibie without bristles at	29.
 ∪,	middle	dorsalis, v. Roser.
	Fore and mid tibiæ with the normal median bristles	longitarsis, Stein.
29.	Hind tibia with only the antero-dorsal bristle at middle	renia, sp. n.
	Ilind tibia with the usual two bristles at	30.
30.	middle Large species, averaging over 5 mm. in	
	Small species, not over 4 mm. in length	31. 34.
31.	Fore femora entirely yellow; arista short-haired	similis, Štein.
	Fore femora partly blackened; arista dis-	32.
32,	tinctly pubescent	02.
	antennal segment much longer than distance from its apex to mouth-margin;	
	anterior sterno-pleural bristle long and strong	natalia, sp. 11.
	Thorax conspicuously vittate laterally; third antennal segment as long as dis-	, 1
	tance from its apex to mouth-margin;	
	anterior sterno-pleural bristle short and weak	99,
33,	Hind tibia with the anterior bristle but slightly based of the antero-dorsal one;	
	fore femur with a black dorsal mark on apical third; median vitta not con-	
	tinued over scutellum	atroapicata, sp. n.
	Hind tibia with the anterior bristle very distinctly basad of the antero-dorsal one;	
	fore femur with a black streak on pos- tero-dorsal surface from base to apex;	
31	median vitta continued over scutellum Arista with its longest hairs about as long	calopoda, Bezzi.
	as width of third antennal segment; abdomen with distinct paired spots and	
	median vitta on dorsum	punctigera, Stein.
35.	Arista barely pubescent	35.
	surface on their entire length with long	

strigulipes, Stein *.

Mid and hind femora with only sparse setulose hairs ventrally; aldomen without distinct dorsal markings......

attenuata, Stein.

Wherever the descriptions of the species have permitted me to do so I have included them in the key, but several African species are so poorly described that this has been found impossible. Those omitted are as follows:—cyclo-ophthalma, Thomson, flavipes, Adams, inversa, Wiedemann, punctipes, Thomson, multimaculata, Adams, sex-notata, Adams, and trichopyga, Loew.

Cænosia punctipes, Thomson.

This species belongs to the same group as *similis*, Stein, but from Stein's re-description I cannot place it satisfactorily, though it will run to *similis* in the key given here. It differs in having the femora all yellow.

Conosia humeralis, Stein.

This specific name, humeralis, was preoecupied by humeralis, Wiedemann, when Stein used it for his species and the name acromiata was proposed to replace that of Stein's species by Speiser. Though the Wiedemann species has been removed to Atherigona and Stein's is a Pygophora, still the two were described as Canosia species, and the name acromiata, Speiser, must take the place of humeralis, Stein, in Pygophora. I have several times referred to Stein's species under the specific name humeralis, having failed to note until recently that the name had been changed by Speiser.

With respect to preoccupied names, it may be well to note that the specific name flavipes has been used three times in this genus, the last time by Adams for an African species, a fact which will prevent the renaming of that species should it have been subsequently described under another name.

Caricea fumisquama (Stein).

A deep black species, with fuscous calyptre and halteres, infuscated wings, and the thorax and abdomen without markings. Arista pubescent; from flat and appearing

^{*} This is the species also listed under the name cingulipes, Zetterstedt, by Stein.

microscopically granulose; the orbital bristles three, long, but not strong. Anterior sterno-pleural short. Anterior median hind tibial bristle slightly basad of the antero-dorsal one, both basad of middle. Eyes covering almost the entire side of head.

Length 3 mm.

One female, Obuasi, Ashanti, A. viii. 1907 (W. M. Graham).

Caricea pilifemur (Stein).

One pair in copula and one female, Ulundi, Natal, ix. 1896,

5000-6500 feet (G. A. K. Marshall).

A very distinctly shining black species, which is distinguished, as stated in the key, by the markings on the abdomen.

Caricea semifumosa (Stein).

A very striking species. Entirely black, densely grey-princescent, the thorax not vittate, and the abdomen with the fuscous paired spots fused. Wings white on basal half, black on apical half. Median long bristles on hind tibia at same height; fore femur with a series of fine short anteroventral bristles on basal two-thirds which are longest at base; anterior sterno-pleural bristle long; from very narrow, not over one-fifth as wide as head at centre in male, the bristles fine and short; longest hairs on arista as long as width of third antennal segment.

Length 4 mm.

Four males, Willow Grange, Natal (R. C. Wroughton).

Caricea semialba, sp. n.

Male und female.—A larger species than the last and more robust, the wings of female not infuscated, and those of male rather inconspicuously so. Other distinguishing characters as stated in key. The chætotaxy of the legs is similar to that of the last species, but the bristles are longer and stronger, and those on antero-ventral surface of hind femur are more numerous, forming an almost complete, if sparse, series. The frons is about as wide as length of antenna, while in semifumosa it is distinctly narrower; lower and anterior sterno-plenral bristles much shorter than upper.

Length 4-5 mm.

Type, male, allotype, and two male paratypes, Ulundi, Natal, ix. 1896, 5000-6500 feet (G. A. K. Marshall). One female paratype, Willow Grange, Natal (R. C. Wroughton).

Caricea tripunctiventris, sp. n.

Male.—A smaller species than either of the preceding two, with hyaline wings, the fore tibia not pale yellow at base, the abdomen almost cylindrical and with paired spots and a fuscous median vitta on dorsum black. The arista has shorter hairs than in the last species, the antennæ extend farther towards month-margin, the third segment is slightly pointed at apex above. In other respects the head is similar to that of semialba. The hypopygium is larger than in that species, being slightly knob-like, the abdomen is not compressed, and the outer cross-vein of wings is about one-third from apex of discal cell, which is much closer to apex than in semialba.

Length 3.5 mm.

Type, Mt. Mlanje, Nyasaland, 16. vi. 1913 (S. A. Neave).

A female which is marked, as is the male, may probably represent another species. The arista has longer hairs, the sterno-pleural bristles are all long and strong, and the inner cross-vein is but little beyond middle of discal cell, while the outer one is even farther from apex of fifth vein than in semialba.

Locality, Durban, Natal (F. Muir).

Caricea longiseta (Stein).

Differs from all the preceding species in having the femora and tibiæ yellow, only the extreme apices of the hind femora being black, and the coxæ are yellow. The antennæ are black, and palpi yellow. Thorax indistinctly vittate. Abdomen marked with a series of central spots and paired lateral spots black. Longest hairs on arista about as long as third antennal segment. Anterior sterno-pleural bristle long and strong; median fore tibial bristle very long, median hind tibial bristles very long and transversely placed.

One male from Sierra Leone differs in having the apex of third antennal segment and all of fore coxe except extreme bases yellow.

Length 5 mm.

I have before me a series of specimens from Ashanti, Sierra Leone, Southern Nigeria, Uganda, Northern Nyasa, and Durban, Natal.

Caricea fumipennis (Stein).

Differs from atroapicata in having the median bristle on hind tibia slightly apicad of the antero-dorsal one. Legs with the exception of the trochanters, basal half of mid and hind femora, and the extreme bases of tibiae black. The wings are rather noticeably browned. Abdomen with a large fuscous mark on each tergite which covers the entire posterior dorsal margin and extends to anterior margin in centre more or less broadly. The fore femora are less setulose antero-ventrally than in atroapicata.

Length 6 mm.

One female, north of Mt. Kenya, Kenya Colony,

18. ii. 1911, 8300 feet (T. J. Anderson).

As the thorax is vittate, it is almost impossible to locate this species correctly by using Stein's key to the African species (1913).

Caricea vittata (Wiedemann).

This species differs in the colour of the face in the sexes, the female having it whitish-grey and the male almost golden-yellow. The femora are without black marks, except at extreme apices of the hind pair. The difference in chaetotaxy of the hind tibic in the sexes is very remarkable, the lack of the antero-ventral bristle in male when it is present in in female being unique in my experience, and it may not apply to the following species, though I have listed them that way in the key.

Length 4-5 mm.

Localities, four specimens, Ulundi, Natal, ix. 1896, 5000-6500 feet, and two specimens, Esteourt, Natal, ix.-x. 1896 (G. A. K. Marshall); one specimen, Willow Grange, Natal (R. C. Wroughton).

This and the next species may be referred, with a slight

doubt, to my genus Neodexiopsis.

Caricea fuscifemur, sp. n.

Female.—Very closely related to vittata. Differs in having the femora largely fuscous, the abdominal spots larger and darker, a more conspicuous dark area on mesopleura, the lower calyptra larger, the outer cross-vein at about its own length from apex of fifth instead of half that length, as well as stated in key.

Length 5 mm.

Type, Embu, Kenya Colony, 20. ii. 1914 (G. St. Orde Browne).

Caricea attenuicornis, sp. n.

Female.—Dorsum including from chocolate-brown, the from opaque, thorax and abdomen shining, the former slightly so; face, pleura, and lateral margins of abdominal tergites whitish pruinescent, that on tergites extending towards the middle on the anterior margins, but not entirely over dorsum. Antennæ black, palpi fuscous. Legs yellow; mid and hind coxæ, a streak along dorsal surfaces of fore femora, and the apices of mid and hind femora infuscated.

Eyes covering almost the entire side of head, facets much enlarged in middle close to face; frons flat, bristles rubbed off in type; antennæ long and slender, inserted above middle of profile, third segment tapered to apex, tip acute; arista with its longest hairs as long as its basal width; parafacial and cheek linear. Anterior and lower sterno-pleural bristles short, a long setulose hair between upper and lower bristles as in some of the other species. Tibial bristles very long, the pair on hind tibia at middle transverse. Inner cross-vein at middle of discal cell, outer one a little more than its own length from apex of fifth vein.

Length 6 mm.

Type, South-east edge of Kenya Forest, Kenya Golony, 7. ii. 1911, 5000-6000 feet (T. J. Anderson).

Caricea inæquivitta, sp. n.

Male and female.—Black, densely yellowish-grey pruinescent. Head black, orbits grey; antennæ black; palpi dark brown. Thorax with a linear median vitta and a very broad one on each side of it dark brown, the vittæ nowhere confluent, the lateral pair continued over anterior lateral angles of scutellum; mesopleura brown above. Abdomen with median and lateral brown spots on dorsum. Legs yellow, fore femora almost entirely, mid and hind pairs dorsally and apically blackened; tarsi brown.

Longest hairs on arista about as long as width of third antennal segment. Anterior sterno-pleural bristle very short and weak; basal pair of marginal scutellar bristles much shorter than the apical pair. Abdomen of male cylindrical, the hypopygium small, fourth sternite with two or three long hairs apically, processes of fifth sternite with

fine short hairs and some longer setulæ; abdomen of female tapered apically, apical tergite with very short bristles. Tibial bristles long; anterior and antero-dorsal pair not at same height, the former apicad slightly. Fourth wing-vein in male conspicuously thickened proximad of the inner cross-vein to base of discal cell, not abnormal in female; inner cross-vein at or slightly before middle of discal cell.

Length 7 mm.

Type, female, allotype, and four paratypes, Nakuni, Kenya Colony, i. 1913 (B. L. van Someren). Paratypes, two females, Mogorr River, Kenya Col., v. 1913 (Capt. A. O. Luckman); one female, Kabete, Kenya Col., 17. ii. 1918, and one female, west of Mt. Kenia, 19-20, ii. 1911, 6500-7250 feet (T. J. Anderson).

Cænosia renia, sp. 11.

Male.—An aberrant species, distinguished by the absence of the anterior bristle from middle of hind tibia.

Black, densely grey-pruinescent. Head black, from almost velvety, deep black, orbits grey; antennæ and palpi black. Thorax greasy in type, but evidently vittate. Abdomen with large but not clearly defined lateral spots and median vitta on dorsum black. Legs including fore coxæyellow, fore femora with a black streak on apical half above, mid and hind femora with about the apical third black;

tarsi fuscous. Wings hvaline.

Frons nearly one-third of the head-width; antennie falling considerably short of the mouth-margin, third segment acute above at apex; arista very short pubescent. Abdomen compressed, hypopygium small, fifth sternite with inner half of each process shining and furnished with long fine hairs; fore and mid tibia with the normal bristles small; hind femur with long fine hairs on basal half of postero-ventral surface, and two or three short, widely separated bristles on antero-ventral surface; hind tibia with a short antero-dorsal bristle at middle. Inner cross-vein just beyond middle of discal cell, outer at its own length from apex of fifth vein.

Length 5 mm.

Type, Ulundi, Natal, ix. 1896, 5000-6500 feet (G. A. K. Marshall).

Caricea natalia, sp. n.

Female.—Similar in colour and habitus to atroapicata, differing as stated in key.

The longest hairs on arista are distinctly longer than its basal diameter, the third antennal segment is produced into a sharp point at apex above, and falls short of mouth-margin by a distance about equal to its width; there is a strong bristle above the vibrissa; all the sterno-pleurals are strong, and the median pair of bristles on hind tibia are transversely placed.

Length 7 mm.

Type, Willow Grange, Natal (R. C. Wroughton).

Caricea calopoda (Bezzi).

A very striking species. Fore femur with a long dorsal stripe, and mid and hind femora with a dorsal stripe on apical third or more fuscous; tarsi fuscous. Thorax with three almost confluent dark brown vittæ, and a series of clongate brown spots at bases of dorso-centrals, the median vitta extending to anterior margin and over disc of scutellum; abdomen with a series of elongate dorso-central spots and lateral spots on each segment dark brown. Arista very short-haired; anterior sterno-pleural bristle very weak and short; basal sternite bare; basal half of antero-ventral and ventral surfaces of fore femora rather conspicuously setulose.

Length 7 mm.

I have before me two females from the edge of the forest on the east side of the Aberdare Mts., Kenya Colony, 24. ii. 1911, 7300 feet (T. J. Anderson).

Caricea atroapicata, sp. n.

Male and female.—Similar to the preceding species in general colour, the antennæ black, palpi fuscous basally, blackened apically. The thoracic vittæ are similar, but the median one is not carried over disc of scutellum. The fore femur has the black dorsal stripe broader and present only on the apical half. The median bristles on hind tibiæ are closer together than in calopoda, the anterior one being but little basad of the antero-dorsal one, while in calopoda it is very distinctly so. The fore and hind tibiæ are also more distinctly hairy. The male has one or two very fine outstanding hairs near apices of basal two segments of hind tarsi on anterior side. Hypopygium small; fifth sternite with rather dense short hairs along margins of processes.

Length 6 mm.

Type, male, Kondoa Itangi, Tanganyika Territory, 12. vi. 1916, 4400 feet (W. A. Lamborn). Allotype, Ufomi, Tanganyika Terr., 6. vi. 1916. One male paratype, same data as allotype (W. A. Lamborn).

Caricea longitarsis (Stein).

One female I identify as this from Port Natal.

Curicea strigulipes (Stein).

Two males and one female, Port Natal (Plant).

Conosia acuticoruis (Stein).

A typical Canosia, belonging to the same group as most of the European and North American species. Very well distinguished by the fusion of the three brown thoracic vittee into a broad stripe, which extends over disc of sentellum. Abdomen with paired dark spots; tibie tawny; antennæ and palpi black.

Originally described from Victoria. I have before me a

series from Burpengary, Queensland, and Tasmania.

I.XI .- Fishes of the Clupeid Genera Clupeoides and Potamalosa, and allied Genera. By C. TATE REGAN, M.A., F.R.S.

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In former papers on the Clupeidae I have revised most of the fishes included by Günther in the genera Clupea, Chatoessus, and Pellonula. The remaining Clupeine are here dealt with, except the genera with a long anal fin.

Synopsis of the Genera.			
A single supramaxillary (supplemental bone). I. No mid-dorsal series of scutes.			
A. Anal fin without finlets. Abdominal serrature beginning at isthmus Abdominal serrature beginning behind thorax			
B. Anal fin followed by two finlets.			
Mouth normal; teeth minute	3,	Corica.	
priemaxilhary; teeth acute, unequal	4.	Clupeichthys.	
II. A series of keeled scutes from occiput to dorsal fin.			
Teeth small; supramaxitlary (supplemental bone) narrow		Potamalosa. Hyperlophus.	